

KARTHIK SURESH

Mobile: +919786363531

E-mail: karthik.dame@gmail.com

A Senior Product engineer with three years of industry experience in Product design and Finite Element Analysis of Railway components. Ability to apply design knowledge and analysis skills effectively to make optimized designs. An excellent team player with polished organization, communication and presentation skills.

HIGHLIGHTS

Ability to function as a team player and alternatively work independently to achieve objectives.

Problem solving and troubleshooting skills.

Ability to manage multiple tasks and deadlines.

Good inter personal skills and ability to work under pressure

Fluent in English and Tamil, Fairly proficient in Kannada and Deutsche (German).

Quick learner

PROFILE

Expertise summary

Technical Skills

- Well Versed in: Catia V5 R21, ANSYS, Solid Works. Potential to work with Auto CAD, Pro/E.
- Design and development of products, evolving concepts and problem solving methodology. Developing 3D model and 2D for components.
- Have done Internship with Research and Development team, Tube Investments India, Chennai.
- Experienced in design and fabrication of Special Purpose Machines.

Computer Skills

- Computer Basics, well versed with Internet.
- Proficient in various Microsoft tools such as Excel, Words, PowerPoint.

Academic qualification

DEGREE	YEAR	INSTITUTION	PERCENTAGE
M.E(Engineering Design)	2012-2014	College of Engineering Guindy, chennai	7.84 CGPA
B.E(Mechanical Engineering)	2008-2012	Panimalar Engineering college, Chennai	8.1 CGPA
Higher Secondary	2007-2008	Sri Vidya Mandir Matric Higher sec. school, Uthangarai	94.42%
S.S.L.C	2005-2006	Sri Vijay Vidyalaya Matric School, Hosur.	87.0%

WORK EXPERIENCE

Organization : M/s. Faiveley Transport India Limited.
Department : Product Engineering
Designation : Senior Engineer
Duration : Sep-2014 to till Date
Tools used : Catia V5R21, Ansys, MS Office, etc.

Roles and Responsibilities as Senior Product Engineer:

- Concept Design for Pneumatic valves and detailed design using CATIA V5.
- Design the pneumatic panel (Routing & Interfacing) to meet the customer interface and release drawings for manufacturing.
- Creating 3D models & drawings for the components in brake control unit.
- Prepare the proposal Model / Drawing for customer approval & Analysis.
- Changing the Design of components according to customer requirement.
- Handling Engineering Changes in drawings - Receiving Document Distribution card and releasing Document Release Copy to all drawings from Centre of Competencies.
- Development of fixtures for mock up tests and prototypes and assist suppliers from Engineering side.
- Co-ordinate the type tests and prepare First Article Inspection to validate the product and meet the end customer requirement.
- Execution of Projects from counter-parts being Single point contact.
- Coordinating with Sisco's / Customers for product /System development activities.
- Coordinating with Internal Department to execute the Project in line with QCD.
- Prepare DFMEA, Implement WBS, Improve standardization.
- Finite Element Analysis of Railway Couplers - Strength Analysis and Design suggestions for improvements in high stressed areas.
- Finite Element Analysis of HVAC used in Metro trains – Modal Analysis, Fatigue & Proof Stress analysis, Random, Shock and Vibration Analysis.
- Creating finite element models of various parts based on the analysis result, assembling the same with respect to linear and non-linear structural domain.
- Writing reports for summarizing the analysis results and reviewing all project-related analysis results for ensuring the accuracy of project reports.
- Interpreting analysis results with respect to results obtained by lab testing procedures, converting these results into practical design templates based on given geometry model and providing structural support to design.
- Provide weight reduction suggestions for existing programs.
- Manage outsourced FEA support as required when local resources cannot meet demand.
- Accelerating product development processes for meeting customer requirements.

CURRICULAM PROJECTS AND INTERNSHIPS

INTERNSHIP:

Design and Development of Uniaxial Tube Stretching equipment for reducing Residual stresses in Stainless Steel tubes.

Description:

- The work is based on Concept generation, Designing and Building a Special Purpose machine that is automated and capable of reducing residual stress in stainless steel tubes.
- Also, residual stress in boiler tubes are taken into consideration and the work involving analysis and experimentation of reducing residual stresses in stainless steel tubes that are used in some boiler applications has been attempted.

Company: Tube Investments of India LTD. Avadi, Chennai-600054. India.

UG Project:

Study and analysis on physical parameters in Incremental forming of Deep drawing steels into cone shapes.

Description:

- The project deals with the optimization of process parameters of single point incremental forming of sheet metal.
- Also, the micro structural study has been carried out to analyze the grain distribution and to identify the important factors that control the better SPIF on stainless steel by varying different physical parameters such as surface finish, thickness distribution, thinning limit and forming angle.

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

- Published paper in RAIME'14, National Conference on Recent Advances in Mechanical engineering.
- Designed SPM, Mattress measurement machine for Duroflex India pvt.Ltd.
- Certified in AUTOCAD 2010 and CATIA V5 R19.
- Event coordinator in Symposiums.

PERSONAL INFORMATION

Surname	:	Suresh
Forename	:	Karthik
Date of Birth	:	10-08-1991
Sex	:	Male
Nationality	:	Indian

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge. And I assure you that I would be sincere, committed and hardworking and would use the best of my skills, if I am honored the job.

PLACE: Hosur

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